

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

000757 WM21/0924 BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO IL 60610

APPLICATION NO.		FILING DATE	TOTAL CLAIMS	EXAMIN	NER AND GROUP ART UNIT		DATE MAILED
	09/456,151	12/07/99	017	RENNER, C		2652	09/24/01
First Named Applicant	SATO,		35	JSC 154(b) t	erm ext. =	0 Day	75.

TITLE OF INVENTION

SUBSTRATE HAVING MAGNETORESISTIVE ELEMENTS AND MONITOR ELEMENT CAPABLE

OF PREVENTING A SHORT CIRCUIT

ATTY'S DOCK	KET NO.	CLASS-SUBCLASS	ВАДЁН NO.	APPLN. TYPE	SMALL ENTI	TY FEE DUE	DATE DUE
1 9	281-3489	360-314	5.000	M30 UT	LITY	NO \$124	10.00 12/24/0

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u>

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above.
 If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

 Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY

Annual

Notice of Allowability

Application No. **09/456,151**

Applicant(s)

Examiner

Craig A. Renner

Art Unit

2652

Sato et al.



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. X This communication is responsive to the amendment filed 17 Sep 2001 as Paper No. 7 2. X The allowed claim(s) is/are 1-17 3. X The drawings filed on _____ 7 Dec 1999 ____ are acceptable as formal drawings. 4. X Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) X All c) None of the: b) Some* 1. X Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: 5. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE FOR SUBMITTING NEW FORMAL DRAWINGS, OR A SUBSTITUTE OATH OR DECLARATION. This three-month period for complying with the REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL is extendable under 37 CFR 1.136(a). 6. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED. 7. Applicant MUST submit NEW FORMAL DRAWINGS (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing correction filed ______, which has been approved by the examiner. (c) including changes required by the attached Examiner's Amendment/Comment or in the Office action of Paper No. . Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson. 8. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Any reply to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included. Attachment(s) 2 Notice of Informal Patent Application (PTO-152) 1 Notice of References Cited (PTO-892) 4 Interview Summary (PTO-413), Paper No. _____. Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449), Paper No(s). 6 Examiner's Amendment/Comment 8 X Examiner's Statement of Reasons for Allowance Examiner's Comment Regarding Requirement for Deposit of Biological Material Other

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1. The following is an examiner's statement of reasons for allowance:

With respect to claims 1-8 and 12, the prior art of record does not teach nor suggest the invention as claimed wherein the distance between a monitor element and a lower shielding layer is larger than that between magnetoresistive elements and the lower shielding layer on an air-bearing-surface side.

With respect to claims 9-11, the prior art of record does not teach nor suggest the invention as claimed wherein the distance between a monitor element and an upper shielding layer is larger than that between magnetoresistive elements and the upper shielding layer on an air-bearing-surface side.

With respect to claims 13-17, the prior art of record does not teach nor suggest the invention as claimed wherein magnetoresistive elements are formed on a lower gap layer formed on a lower shielding layer formed on a substrate, and a monitor element is formed on the substrate with the lower gap layer held therebetween, without the lower shielding layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for ...

Allowance."

2. Any inquiry concerning the above referenced application should be directed to the examiner, Craig A. Renner, whose telephone number is (703) 308-0559, and whose facsimile

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number is (703) 872-9314. The examiner can normally be reached Tuesday through Friday from 7:30 a.m. to 6:00 p.m. E.S.T.

Craig A. Renner
Primary Examiner
Art Unit 2652

CAR September 20, 2001